

Connections

Motors, a driving force!



**New England Drives
& Controls, Inc.**

Motors have been around for quite a while, and are at the core of most machinery in the modern physical world. That being said, there is

Trust like the lubricant in an engine, is noticed only when it is gone and the motor has seized up.

--David Hurst

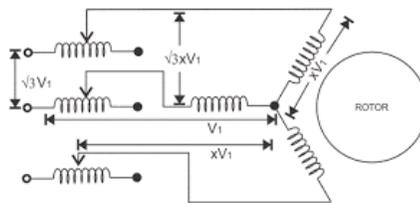
As New England Drives & Controls constantly strives to become a better asset to our customers, our whitepaper series will feature new technologies or helpful insights that may be pertinent to the reader. It is our sincere hope that this information will be beneficial in both relating, and applying content to your industrial needs.

We hope you find this whitepaper series an enjoyable and informative read.

We always welcome your questions and comments.

still much improvement and new technology being applied to these devices, both large and small. Some motors simply connect to their power source

and run at a set rate, or frequency. Other motors can vary their frequency or power curve by use of a controller or inverter. Depending on what kind of motor we are talking about, the control or drive for it can be widely different.



As an example, a stepper or servo motor, can

be externally controlled, and even programmed to repeat the same operation to exacting standards controlling an axis with great precision.

In fairness the motor does not do all of the work, but it is a major part of a team of components, basically comprised of not only the motor, but also a drive and a device to give feedback to the drive to ensure the motor is doing what it should at any given time. Not to mention the gearboxes, wiring, breakers, and connectors that all play a part. This is an oversimplification of



what is done in the many applications that motors play a role in, but it helps to convey the idea.

Typical applications for motors are conveyor belts, autonomously guided vehicles (AGV), machine actuations, motion control, driving fans, I'd probably be quicker by listing things that do not have motors to keep the list shorter 😊

Of course, where there are motors, there is the possible need for much more automation equipment, encoders, resolvers, sensors, safety controls, terminal blocks, controllers, power supplies, inverters. It can be tricky determining everything needed for a particular application. Whether it is a new design or simply a replacement for a worn unit; Let New England Drives & Controls assist you when you are walking down this path. We are always more than eager to help!



Peter Lavoie – (Engineering Manager)



Oriental motor



Lenze



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Toll Free: 888-275-2092

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